

## RECORDS OF MINNESOTA MOLLUSKS.

BY L. E. DANIELS.

The month of July, 1905, I spent at various points in Minnesota, and incidentally did some collecting of mollusca; and since there has been so little published on the mollusca of Minnesota, I contribute my mite.

The following is a complete list of my catch. At Thief River Falls and White Earth Lake I collected several days; at the other localities but a few hours, so that this list cannot be taken as a complete fauna of either locality. At the time of my collecting, the rivers and lakes were very high, which will account for the scarcity of fluviatile species.

In order to shorten the names of the localities I will say that Halma is in Marshall county; Anita and Thief River Falls in Red Lake county; White Earth Lake in Becker county; Lake Harriett, near Minneapolis, in Hennepin county; and Cannon Lake in Rice county.

*Polygyra multilineata* (Say). Minneapolis.

*Circinaria concava* (Binn.). Minneapolis.

*Vitrona limpida* Gld. Thief River Falls.

*Vitrea hammonis* (Strom.). Thief River Falls, White Earth Lake.

*Vitrea binneyana* (Morse). Thief River Falls, White Earth Lake.

*Euconulus fulvus* (Müller). Thief River Falls, White Earth Lake.

*Euconulus chersinus polygyratus* Pils. Thief River Falls, White Earth Lake, Anita.

*Zonitoides arborea* (Say). Thief River Falls, White Earth Lake.

*Zonitoides minuscula* (Binney). Thief River Falls.

*Zonitoides milium* (Morse). Thief River Falls, White Earth Lake.

*Pyramidula alternata* (Say). White Earth Lake, Minneapolis.

*Pyramidula cronkhitei anthonyi* Pilsbry. White Earth Lake, Cannon Lake, Anita.

*Helicodiscus parallelus* (Say). Thief River Falls, White Earth Lake, Anita.

- Punctum pygmæum* (Drap.). Thief River Falls.  
*Succinea retusa* Lea. White Earth Lake, *var.* Thief River Falls.  
*Succinea ovalis* Say. Thief River Falls, *var.* Minneapolis.  
*Succinea avara* Say. Thief River Falls, Cannon Lake.  
*Succinea avara vermata* Say. White Earth Lake.  
*Strobilopsis virgo* (Pils.). Thief River Falls, White Earth Lake.  
*Bifidaria contracta* (Say). Thief River Falls, White Earth Lake.  
*Bifidaria pentodon* (Say). Thief River Falls.  
*Bifidaria tappaniana* (C. B. Adams). White Earth Lake.  
*Bifidaria holzingeri* Sterki. White Earth Lake.  
*Cochlicopa lubrica* (Müller). Thief River Falls. Also a form which seems to be *C. l. morseana* Doherty.  
*Vallonia costata* (Müller). Thief River Falls, White Earth Lake.  
*Carychium exile canadense* Clapp. Thief River Falls, White Earth Lake.  
*Lampsis luteola* Lam. Thief River Falls.  
*Anodonta kennicotti* Lea. Thief River Falls.  
*Unio gibbosus* Barnes. Thief River Falls.  
*Quadrula lachrymosa* Lea. Thief River Falls.  
*Sphærium simile* Say. Lake Harriett.  
*Sphærium occidentale* Prime. Thief River Falls.  
*Musculium jayannum* Prime. Thief River Falls.  
*Pisidium* sp. Thief River Falls.  
*Campeloma subsolidum* Anthony. Mississippi River, Minneapolis.  
*Campeloma rufum* Hald. Lake Harriett.  
*Campeloma milesii* Lea. Thief River Falls.  
*Valvata sincera danielsi* Walker. Cannon Lake.  
*Valvata tricarinata* Say. Cannon Lake.  
*Valvata tricarinata simplex* Gld. Cannon Lake.  
*Amnicola limosa* Say. *Var.* Cannon Lake.  
*Physa ancillaria* Say. Lake Harriett.  
*Physa gyrina* Say. Lake Harriett.  
*Physa gyrina hiltrethiana* Lea. Thief River Falls.  
*Physa gyrina oleacea* Tryon. White Earth Lake.  
*Aplexa hypnorum* (Linn.). Thief River Falls, Halma.  
*Lymnæa stagnalis appressa* Say. Thief River Falls, White Earth Lake, Halma, Lake Harriett.  
*Lymnæa stagnalis* *var.* Lake Harriett.  
*Lymnæa obrussa* Say. Thief River Falls, Cannon Lake.

- Lymnæa obrussa modicella* Say. Thief River Falls.  
*Lymnæa sterkii* Baker. Thief River Falls.  
*Lymnæa cooperata* Say. Thief River Falls, Anita.  
*Lymnæa palustris* Müller. Thief River Falls, Cannon Lake, Halma, Anita.  
*Planorbis bicarinatus* Say. Lake Harriett, Cannon Lake.  
*Planorbis trivolvis* Say. Thief River Falls, Cannon Lake, Halma, Lake Harriett.  
*Planorbis campanulatus* Say. Thief River Falls, White Earth Lake, Cannon Lake, Lake Harriett.  
*Planorbis hirsutus* Gld. Cannon Lake.  
*Planorbis parvus* Say. Thief River Falls, Anita.  
*Segmentina armigera* Say. Thief River Falls.

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TWO NEW VARIETIES OF *CYPRÆA* FROM N. E. QUEENSLAND.

BY H. B. PRESTON.

Among a number of *Cypræa* from N. E. Queensland recently received there occur two varieties, one of *C. xanthodon* Gray and one of *C. miliaris* Gmel., which, though undoubtedly belonging to these species, possess such marked varietal characters as to merit notice. I therefore venture to describe them, as follows:

*Cypræa xanthodon* Gray, var. *carnicolor*, n. var.

Dorsal surface flesh-colored without bands, indistinctly freckled with pale rusty-red; base white; posterior and median columellar denticles red, anterior columellar denticles white; denticles on lip pure white throughout; thinner and more pyriform than the type; the posterior extremity of the outer lip is more produced, while that of the columellar lip is less so than in the typical form; moreover, there is no dark blotch on the columellar anterior extremity of the dorsal surface.

Alt. 24, diam. maj. 14 mm.

Hab.: N. E. Queensland.

The above has all the appearance of a deep-water shell.

*Cypræa miliaris* Gmel., var. *nivea*, n. var.

Differing from the typical form in having the dorsal surface grayish-white, gradually shading to pure white towards the base,